ENHANCED ENGLISH ABSTRACT FOR DD279486

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1 / 1 WPAT - ©Thomson Reuters
Derwent Accession :
  1990-335552 [45]
CPI Accession :
  C1990-145639
Title :
  Activation of hydroxylic polymers by reaction with carbonate or
  chloro: formate ester in presence of amine
Derwent Class :
  A96 B04 D16
Patent Assignee :
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Inventor:
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Nbr of Patents :
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  AP: 1986DD-0287730 19860310
Priority Number :
  1986DD-0287730 19860310
Intl Patent Class:
  C08B-031/06; C08B-037/02; C08B-005/00; C08F-008/14; C08G-065/48;
  C08J-007/12; C08B-031/00; C08B-037/00; C08F-008/00; C08G-065/00;
  C08J-007/00
Advanced IPC (V8) :
  C08B-031/06 [2006-01 A - I R - -]; C08B-037/02 [2006-01 A - I R - -];
  C08B-005/00 [2006-01 A - I R - -]; C08F-008/14 [2006-01 A - I R - -];
  C08G-065/48 [2006-01 A - I R - -]; C08J-007/12 [2006-01 A - I R - -]
Core IPC (V8) :
  C08B-031/00 [2006 C - I R - -]; C08B-037/00 [2006 C - I R - -];
  C08B-005/00 [2006 C - I R - -]; C08F-008/00 [2006 C - I R - -];
  C08G-065/00 [2006 C - I R - -]; C08J-007/00 [2006 C - I R - -]
Abstract :
  DD-279486 A
  Activation of OH-contg. polymers is effected by reaction with a cpd.
  (II) selected from carbonate esters of formula RO-CO-OR (IIa) where R is
  an electron-withdrawing qp. chloroformate esters of formula C1COOR
  (IIb) and prods. (IIc) obtd. by reacting COCl2 with a phenol or
  N-substd. hydroxylamine. The reaction is effected at 0-100 deg.C in an
  anhydrous organic solvent in the presence of a 'Supernucleophilic' amine
  (III) capable of forming reactive acylium salts, and opt. a strongly
  basic tert amine (IV). More specifically, (IIa) and (IIb) have R =
  succinimidyl, phthalimidyl 5-norbornene-2,3-dicarboxyimidyl or
  p-nitrophenyl. (IIc) is prepd. by reacting COCl2 with ROH. (III) is
  4-dimethylaminopyridine (DMAP), 4-pyrrolidinopyridine (PPY)
  N-methylimidazole, diabicyclo (5,4,0) undecene (DBU),
  4-morpholinopyridine or diazabicyclo (2,2,2) octane (DABCO). (IV) is
  NEt3, N-methylmorpholine N,N-dimethylaniline, pyridine, picoline or
  N-methylpiperidine.
  USE/ADVANTAGE: The process is esp. useful for activating cellulose,
  polysaccharide, polyethylene glycol or polyvinyl alcohol supports for
  use in the biotechnology, chemical and pharmaceutical industries,
  scientific research and clinical analysis. The process introduces
 carbonate ester gps. under mild conditions, giving high degrees of
  activation using only small amts of (II). @(12pp Dwg.No.0/0)
Manual Codes :
  CPI: A10-E07A A12-V03C2 B04-C02A3 B04-C03B B12-K04 D05-A D05-H09
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